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## I claim:

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A fiber optic cable, comprising: 1.

an outer layer;

at least one optical fiber disposed inside said outer layer; and

a gel-swellable portion and water resistant gel positioned adjacent to each other and disposed between said outer layer and said optical fiber;

wherein said gel-swellable portion absorbs at least some of said gel.

- 2. The fiber optic cable according to claim 1, wherein said gel-swellable portion is a continuous layer surrounding said at least one optical fiber.
- 3. The fiber optic cable according to claim 2, wherein said continuous layer has an uneven thickness.
- 4. The fiber optic cable according to claim 1, wherein said at least one gel swellable portion has a smooth surface.
- 5. The fiber optic cable according to claim 1, wherein said at least one gelswellable portion is adhered to an outer surface of said at least one optical fiber.
- 6. The fiber optic cable according to claim 1, wherein said at least one gelswellable portion is adhered to an inner surface of said outer layer.

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7. The fiber optic cable according to claim 1, wherein said at least one gel-

swellable portion extends longitudinally along the length of said at least at least one optical

fiber.

5 8. The fiber optic cable according to claim 1, wherein said at least one gel-

swellable portion has an uneven thickness.

9. The fiber optic cable according to claim 1, wherein said gel-swellable portion

has a density less than 0.90 g/cc.

10. The fiber optic cable according to claim 1, wherein said gel-swellable portion

is one of a copolymer or terpolymer of polyethelene.

11. The fiber optic cable according to claim 1, wherein said gel-swellable portion

swells more than 10% at 85°C.

12. The fiber optic cable according to claim 1, wherein said gel is a polyolefin oil

based gel.

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13. The fiber optic cable according to claim 1, wherein said gel-swellable portion

is a polyolefin swellable material.

14. The fiber optic cable according to claim 1, wherein said gel-swellable portion is softer than said outer layer.

15. A fiber optic cable, comprising:

an outer layer;

at least one optical fiber ribbon disposed inside said outer layer; and

a gel-swellable layer and a water resistant gel positioned adjacent to each other and disposed between said outer layer and said ribbon;

wherein said gel swellable layer absorbs at least some of a said gel.

- The fiber optic cable according to claim 15, wherein said gel-swellable portion 16. is a continuous layer surrounding said at least one ribbon.
- 17. The fiber optic cable according to claim 16, wherein said continuous layer has an uneven thickness.
- 18. The fiber optic cable according to claim 15, wherein said at least one gel swellable portion has a smooth surface.
- 20 19. The fiber optic cable according to claim 15, wherein said at least one gelswellable portion is secured to an outer surface of said at least one ribbon.

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20. The fiber optic cable according to claim 15, wherein said at least one gelswellable portion is secured to an inner surface of said outer layer.

- The fiber optic cable according to claim 15, wherein said at least one gel-21. 5 swellable portion extends longitudinally along the length of said at least one ribbon.
  - 22. The fiber optic cable according to claim 15, wherein said at least one gelswellable portion has an uneven thickness.
  - 23. The fiber optic cable according to claim 15, wherein said gel-swellable layer has a density less than 0.90 g/cc.
  - 24. The fiber optic cable according to claim 15, wherein said gel-swellable layer is one of a copolymer or terpolymer of polyethelene.
  - 25. The fiber optic cable according to claim 1, wherein said gel-swellable layer swells more than 10% at 85°C.
- 26. The fiber optic cable according to claim 15, wherein said gel is a polyolefin oil 20 based gel.
  - 27. The fiber optic cable according to claim 15, wherein said gel-swellable layer is a polyolefin swellable material.

28. The fiber optic cable according to claim 15, wherein said gel-swellable portion is softer than said outer layer.

29. A fiber optic cable, comprising:

an outer layer, having at least one gel-swellable portion adhered to an inside surface of said outer layer;

at least one optical fiber; and

a water resistant gel disposed between said at least one optical fiber and said outer layer;

wherein said gel-swellable portion absorbs at least some of said gel.

- 30. The fiber optic cable according to claim 29, wherein said gel-swellable portion is a continuous layer on said inner surface of said outer layer.
- 31. The fiber optic cable according to claim 30, wherein said continuous layer has an uneven thickness.
- 32. The fiber optic cable according to claim 29, wherein said at least one gel-20 swellable portion has a smooth surface.
  - 33. The fiber optic cable according to claim 29, further comprising at least one other gel-swellable portion adhered to an outer surface of said at least one optical fiber.

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34. The fiber optic cable according to claim 29, wherein said at least one gel-

swellable portion extends longitudinally along the length of said outer layer.

35. The fiber optic cable according to claim 29, wherein said at least one gel-

swellable portion has an uneven thickness.

36. The fiber optic cable according to claim 29, wherein said gel-swellable portion

has a density less than 0.90 g/cc.

37. The fiber optic cable according to claim 29, wherein said gel-swellable portion

is one of a copolymer or terpolymer of polyethelene.

38. The fiber optic cable according to claim 29, wherein said gel-swellable portion

swells more than 10% at 85°C.

39. The fiber optic cable according to claim 29, wherein said gel is a polyolefin oil

based gel.

40. The fiber optic cable according to claim 29, wherein said gel-swellable portion

is a polyolefin swellable material.

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41. The fiber optic cable according to claim 29, wherein said gel-swellable portion is softer than said outer layer.

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